

UNUS #97-0029-UNI
Case No. F7371(V)

REMARKS

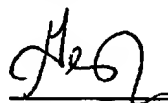
Reconsideration of the application, as amended, is respectfully requested.

Claims 2 and 21 have been amended to specify that the fragments appear in the polypeptide in the order specified. This is supported in Seq. ID No: 7 on pages 4 and 5. It is not apparent why Applicants should be required to specify that the sequences appear only once. Nor does Applicant exclude the possibility of intervening sequences.

Claim 23 has been amended to correct a typographical error in the amendment of June 9, 2003.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "**Version With Markings To Show Changes Made.**"

Respectfully submitted,



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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the claims:

Please amend claims 2, 21 and 23 as follows:

2. (~~Three~~Fourth amended) Isolated polypeptides having antifreeze activity comprising ~~one or more fragments (A-E)~~ of the amino acid sequence in the following order within the polypeptide as follows:

(A) LEU-PRO-ASN-LEU-PHE-GLY-LYS (SEQ ID NO: 1)

(B) ILE-PRO-GLU-GLU-ILE-SER-ALA-LEU-LYS (SEQ ID NO: 2)

(D) SER-LEU-ARG-LEU-SER-SER-THR-SER-LEU-SER-GLY-PRO-VAL-PRO-LEU-PHE-PHE-PRO-GLN-LEU-X-LYS (SEQ ID NO: 4)

(C) LEU-THR-X-LEU-ASP-LEU-SER-PHE-ASN-LYS (SEQ ID NO: 3)

(E) X-X-GLY-VAL-ILE-PRO-X-GLN-LEU-SER-THR-LEU-PRO-ASN-LEU-LYS (SEQ ID NO: 5), wherein X is any amino acid.

21. (~~New~~Amended) A food product comprising a polypeptide having antifreeze activity comprising ~~one or more fragments (A-E)~~ of the amino acid sequence as follows in the following order in the polypeptide:

(A) LEU-PRO-ASN-LEU-PHE-GLY-LYS (SEQ ID NO: 1)

(B) ILE-PRO-GLU-GLU-ILE-SER-ALA-LEU-LYS (SEQ ID NO; 2)

(D) SER-LEU-ARG-LEU-SER-SER-THR-SER-LEU-SER-GLY-PRO-VAL-PRO-LEU-PHE-PHE-PRO-GLN-LEU-X-LYS (SEQ ID NO: 4)

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(C) LEU-THR-X-LEU-ASP-LEU-SER-PHE-ASN-LYS (SEQ ID NO: 3)

(E) X-X-GLY-VAL-ILE-PRO-X-GLN-LEU-SER-THR-LEU-PRO-ASN-LEU-LYS (SEQ ID NO: 5),
wherein the food product is a frozen confectionery product or a frozen vegetable with
the proviso that the food product is not a carrot, wherein X is any amino acid.

23. (Twice Amended) A food product comprising a polypeptide having antifreeze
activity and having an amino acid sequence selected from the sequence as represented
in SEQ ID No. 1-7 and isoforms and derivatives thereof which still possess antifreeze
activity wherein the food product is a frozen confectionery product or a frozen
vegetable with the proviso that the food product is not a carrot.